



Global Force Management Data Initiative

Joint Staff, J-8

14 December 2004

Global Force Management Purpose



To provide a high level overview of the Global Force Management (GFM) and the Force Structure Construct (FSC), specifically:

- **Documentation of the DoD Force Structure**
- **The unique identification of force structure elements across the GLG, and**
- **The data dissemination processes**

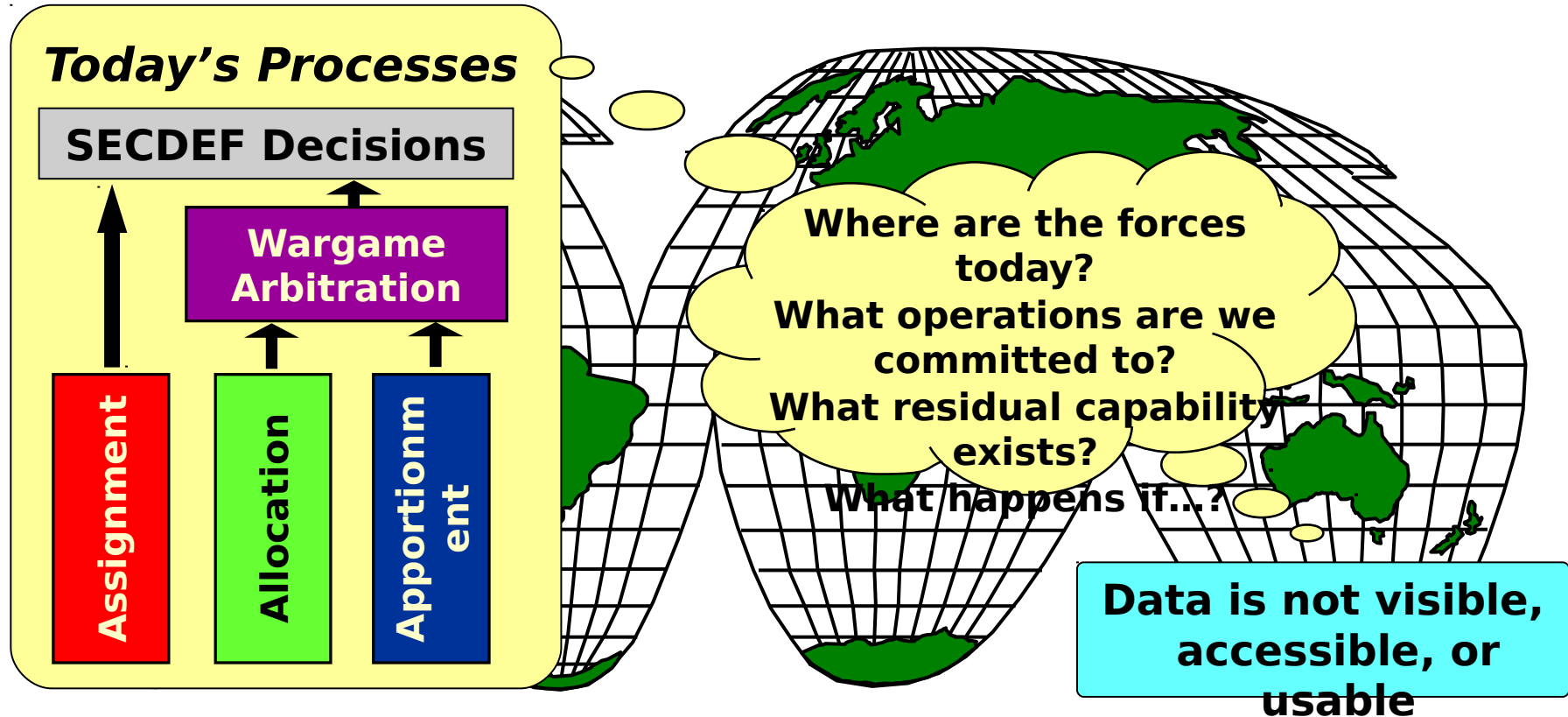
- **Force structure pulls everything together**
 - Readiness reporting
 - Resources (including personnel & equipment)
 - Capabilities
- **Devil's in the details**
 - Need commonality between Services
 - Need common naming (Enterprise-Wide Identifiers)
 - Default operational force structures
 - Starting point for any joint task organization
- **Readiness**
 - Reporting is based on force structure
 - Personnel & Materiel are tied in below the UIC level
 - Reporting must be rigorous for any task organization

Global Force Management Direction



- Document the “Authorized” force structure in a single, authoritative data source (ADS)
- Improve the SecDef's ability to manage risk across current worldwide operations, warfighting capabilities, and future force capability needs (i.e., Assignment, Allocation, and Apportionment)
- Make net-centric GFM data transparent, easily accessible to all users, and shared using common standards and resources
- GFM is referred to two distinct ways:
 - The GFM Process
 - GFM Data

GFM Process Problem Statement



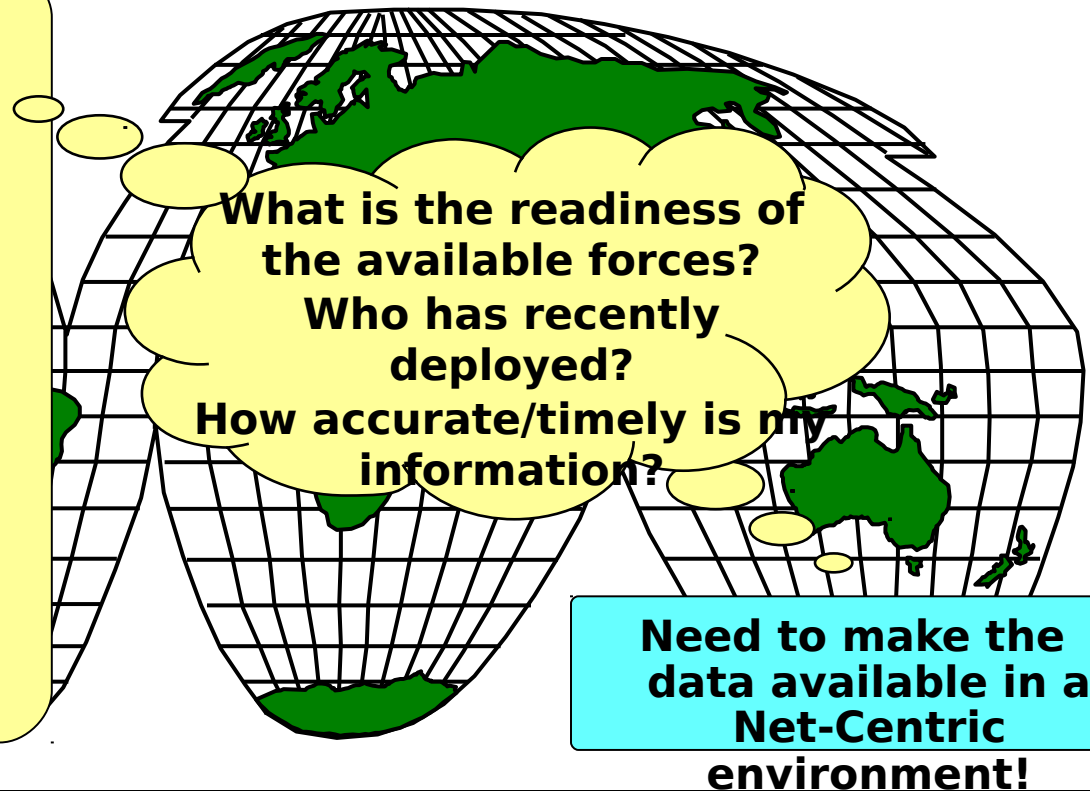
Directives

1. Per SecDef's Memo, JS to integrate assignment, allocation and app
2. Per SROC Guidance, the JS will implement enterprise-wide unit iden
3. Per SPG FY06-11, CJCS to develop/organize force structure data ac

GFM Data Problem Statement

DoD needs Global Force Management Data

- Force Structure Data
 - Current Unit Locations
 - "Event" data
 - Operational Availability
 - Total US Inventory
 - Joint hierarchically organized
- Historical archive



DoD cannot anticipate all of the Global Force Management questions that will need to be addressed for senior DoD leadership...the enterprise must have access and visibility to GFM data in a net-centric environment.

Net-Centric Vision

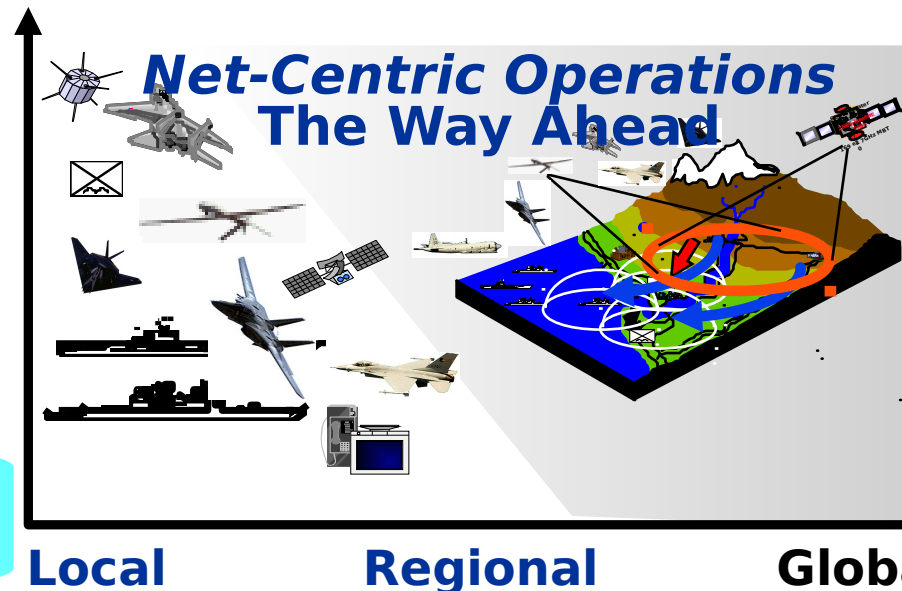
"The **two truly transforming things**, conceivably, might be in information technology and information operation and **networking and connecting things in ways that they function totally differently than they had previously**. And if that's possible, what I just said, that possibly the **single-most transforming thing** in our force will not be a weapon system, but **a set of interconnections** and a substantially enhanced capability because of that awareness."

Secretary Rumsfeld - Aug 9, 2001

Information Quality

- ✓ Content
- ✓ Accuracy
- ✓ Completeness
- ✓ Timeliness
- ✓ Relevance

Platform-Centric
Information Advantage



Net-Centric
Information
Advantage

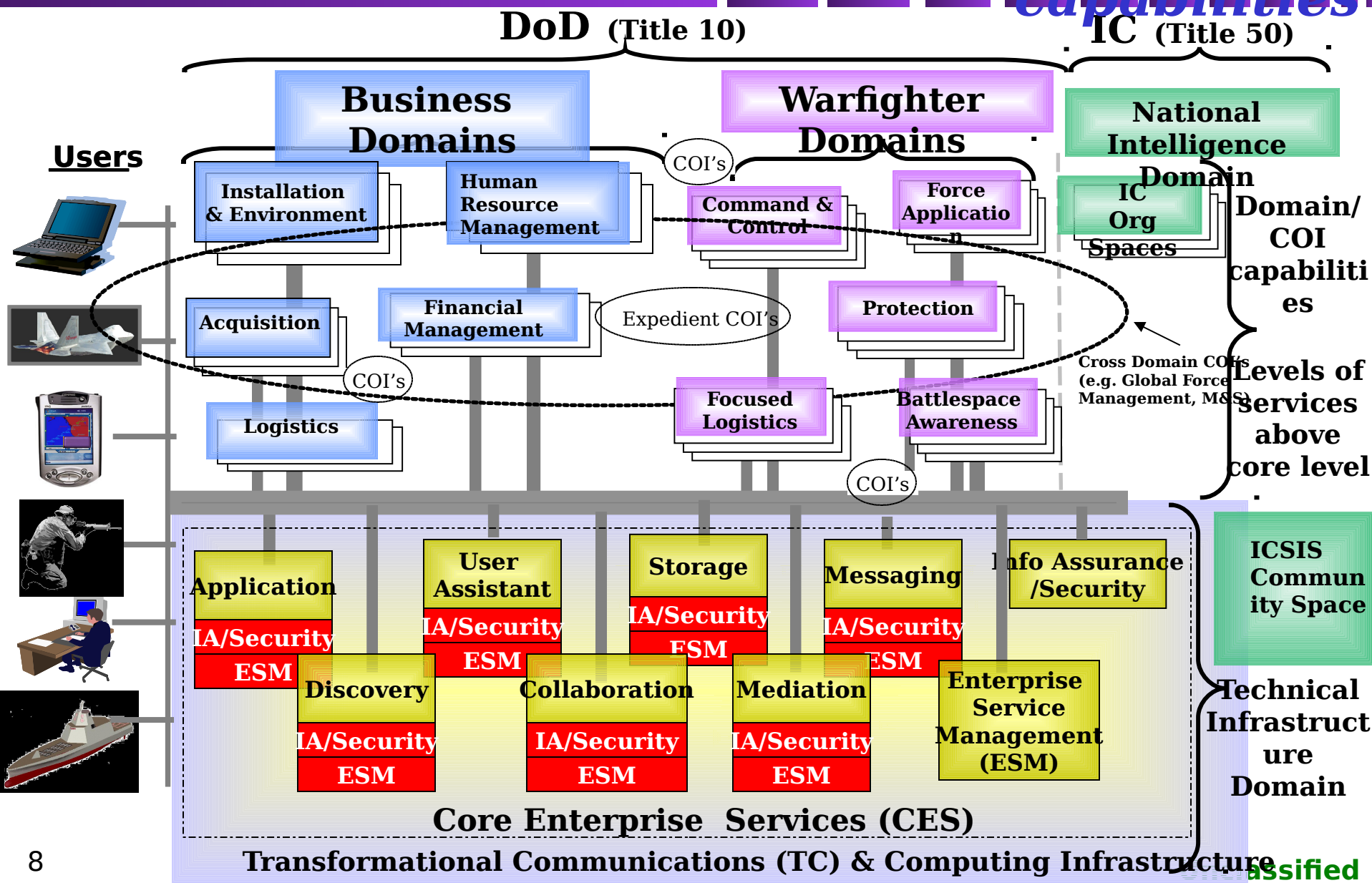
Information
Applicability

Goals of Net-Centricity

- Make information available on a network that people depend on and trust
- Populate the network with new, dynamic sources of information to defeat the enemy

Global Information Grid (GIG)

Enterprise Services is way to common capabilities

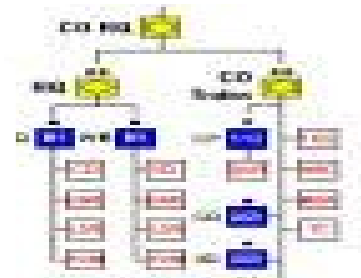


Force Structure Construct

Document

A joint hierarchical way to organize (document) force structure data for integration across Service-lines

- Top to bottom (billet level) organizations with operational organizational aspects (Tactics, Techniques, and Procedures)
- Provides common semantics and rules for

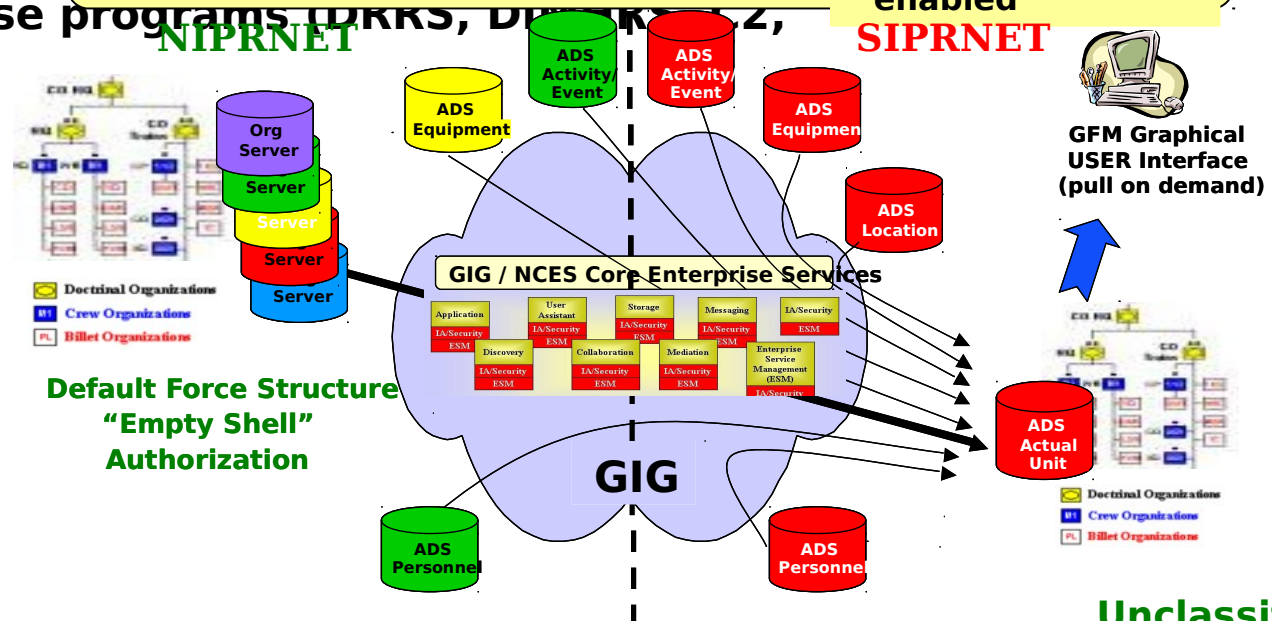
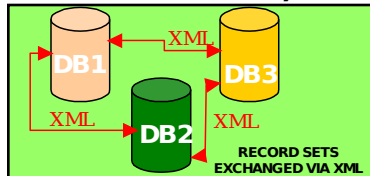


Doctrinal Organizations
 Crew Organizations
 Billet Organizations

Identify

Disseminate

- D in an FSC
- D in an
- Multiple enterprise programs (DKKS, DPKS, Z, NIPRNET, SIPRNET)
- Org Servers are the Authoritative Data
- Web-service-enabled
- XML for services (e.g., discovery, collaboration,

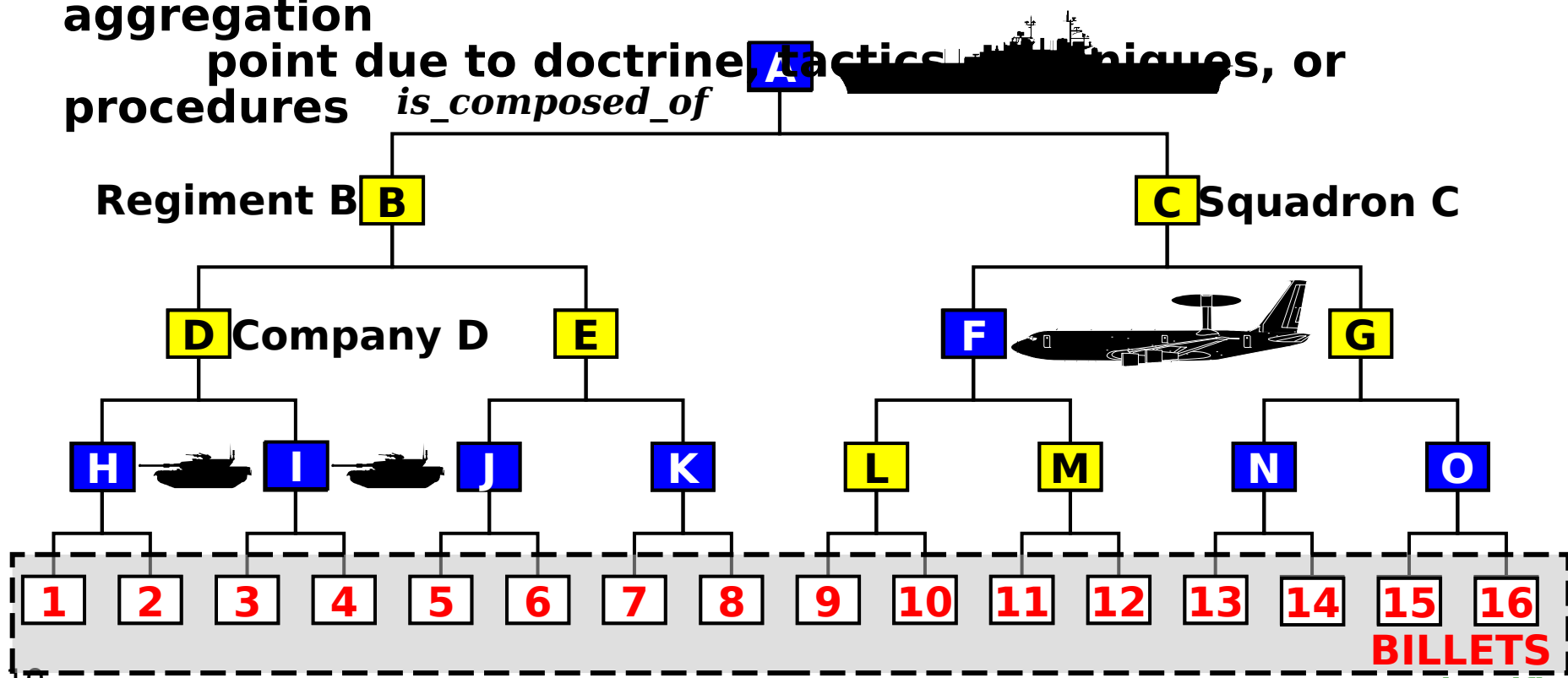


- FMIDs (unique EWID data identifiers) to allow data integration

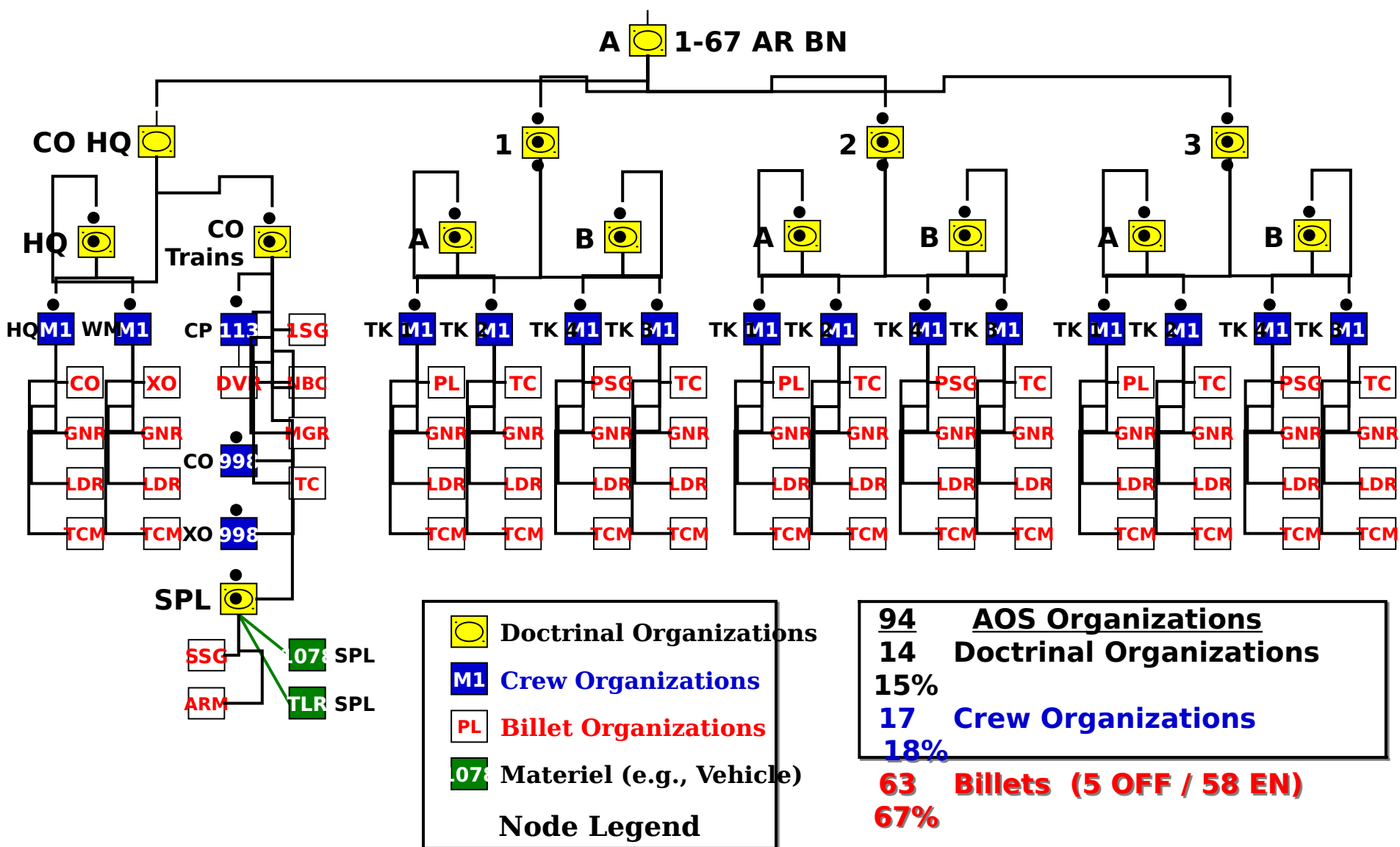


Why Put A Node (Aggregation Point) in an Org Chart?

- **Billet:** Leaf node with a (designed) 1:1 correspondence with a person
- **Crew:** Internal node with a 1:1 correspondence with a platform designed for operation by one or more persons and transport those persons.
- **Doctrinal:** Internal node that serves as an arbitrary aggregation point due to doctrine, tactics, techniques, or procedures *is_composed_of*



Force Structure Construct (FSC)

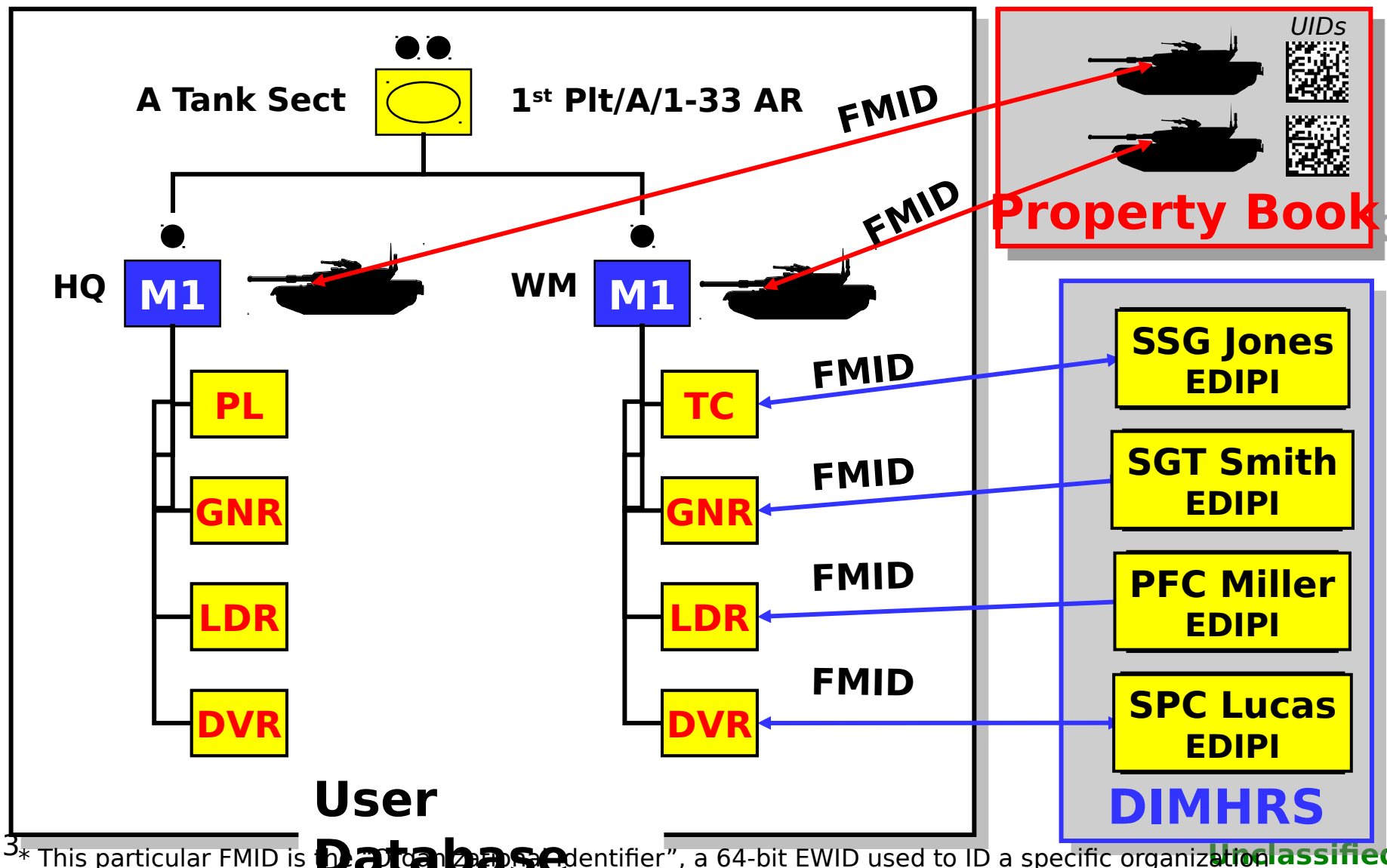


Doctrinal Organizations
 Crew Organizations
 Billet Organizations
 Materiel (e.g., Vehicle)
Node Legend

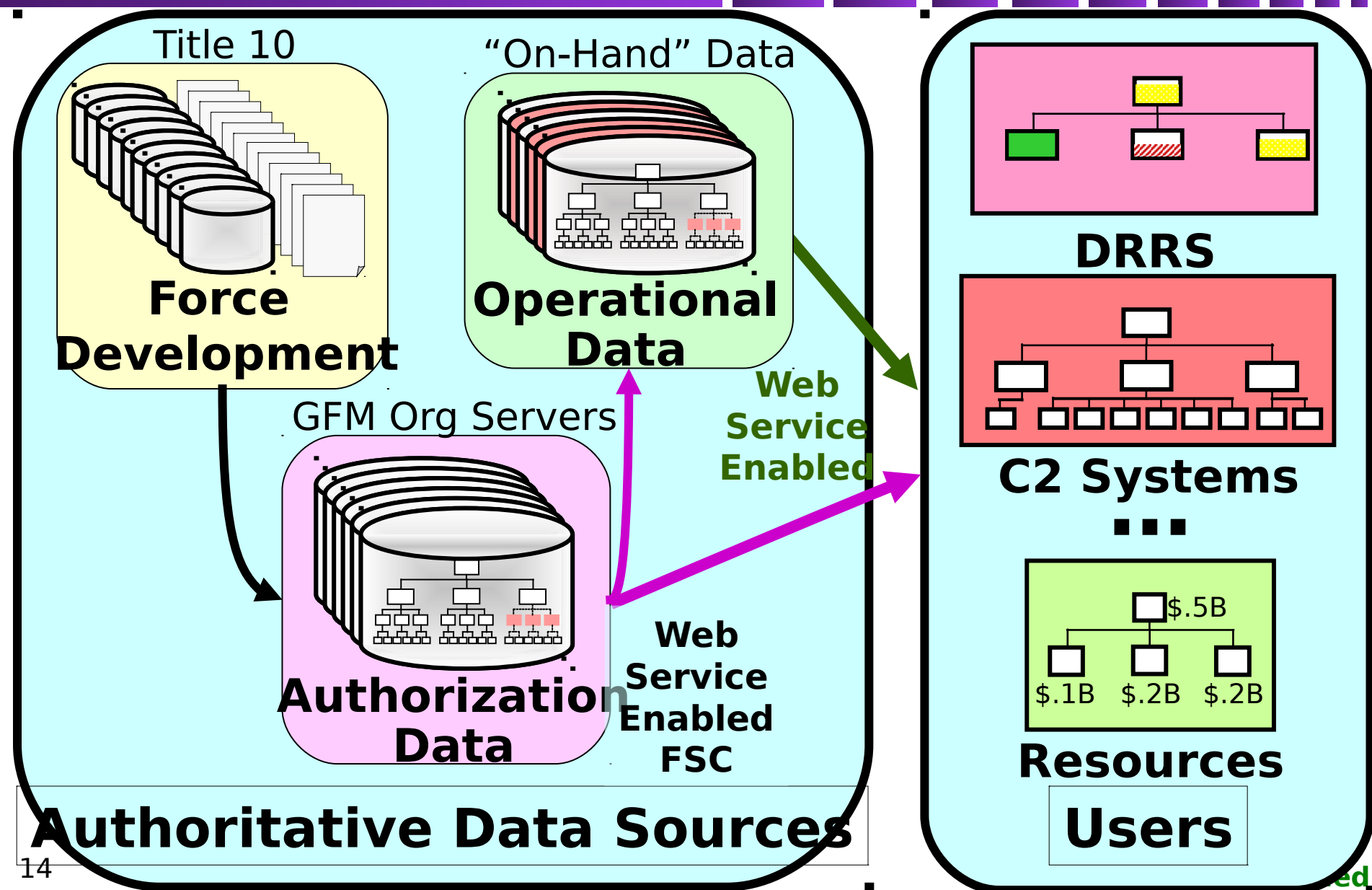
94 AOS Organizations
14 Doctrinal Organizations
15%
17 Crew Organizations
18%
63 Billets (5 OFF / 58 EN)
67%

Force Management Identifier Specification

- Force Management Identifiers:
 - Are the collection of identifiers used in the GFM Information Exchange Data Model (GFMIEDM)
(e.g., the “Organization-Identifier” and “Alias-Identifier” are FMIDs)
 - Includes all GFMIEDM Identifiers and Indexes
 - Are of data type Enterprise-wide Identifier [EWID]
 - Can be used to uniquely identify any data across the GIG
 - All GFM data is tagged for ease of software development and interoperability
- An Enterprise-wide Identifier [EWID] data type is:
 - A non-intelligence bearing, 64-bit number that includes no information about the entity it identifies, composed of a 32-bit prefix and a 32-bit suffix
 - Prefix is called an EWID Seed, is globally unique, and obtained via a controlled server.
 - Suffix is local user controlled and maintained.
 - May be used as a primary or alternate identifier (or key)
- When any GFMIEDM data is created, it is tagged for life – this includes:
 - Organizations, Materiel Authorizations, Personnel Authorizations, and Relationships and associations between these entities



Global Force Management FSC



GFM Data Prototype Effort

- **Preparing a “Combat Slice” from each of the Services and putting it into GFMIEDM format**
 - **Navy - Expeditionary Strike Group (ESG)**
 - **USMC - Marine Expeditionary Unit (MEU)**
 - **Army - Unit of Action (UA)**
 - **Air Force - 4th Fighter Wing**
- **Simultaneously preparing the Concept of the Operations (CONOPS) in three areas:**
 - **Organization Server Operations**
 - **Allocation, Assignment & Apportionment process**
 - **GFM in a net-centric environment**

- **Force Structure is the central integrating theme (i.e., the “foundation”) for Global Force Management**
- **The GFM Force Structure Construct is an organizational way to electronically document force structure data**
 - **A fully-articulated, hierarchal, default force structure that will be the authoritative source for authorized force structure data for use by all systems within the DoD enterprise**
 - **A net-centric means of accessing this information (XML & Web Service enabling)**
 - **Enterprise-Wide Identifiers (EWID) for tagging data for organizations, manpower, and equipment authorizations within DoD**
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Back-Up Slides